ABSTRACT:

An image processing method for extracting a threadlike structure (GW) represented in an image, comprising a phase of acquisition (10) of a sequence of images, including an image of a present instant (t) in which the threadlike structure is to be extracted and an image of a past instant (t-1) in which the threadlike structure is detected as a string of points ( $G_{t-1}$ ), and further comprising a phase of prediction (20) of a silhouette ( $\hat{G}_t$ ) of the threadlike structure estimated from said detected string of points ( $G_{t-1}$ ), of the image of the past instant, a phase of pursuit (30) for extracting a final string of points ( $G_t$ ) representing the threadlike structure in the image of the present instant t, including steps of estimation of constraints ( $C2_t$ ,  $\theta$ ) based on said silhouette ( $\hat{G}_t$ ) for performing said extraction.

FIG.1.

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